

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	18	("5953532" "6088803" "6178551" "6418555" "6484315" "5337354" "6654787" "6771765" ).pn. or "20040133776"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 07:54
L3	4	("6654787" "6771765").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 08:30
L4	2	("5619648").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 08:54
L5	16	(virus near3 protect\$3 ) and detect\$3 and (signature or checksum or crc) and (data or program or database or graphics or bitmap or audio or video or multimedia or file ) and spam and firewall	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:25
L6	0	"6651249".pn. and ( fingerprint or "finger print" or signature or checksum or crc) and (unwanted or spam) and firewall	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:26
L7	262119	"6651249".pn. and ( fingerprint or "finger print" or signature or checksum or crc) or (unwanted or spam) or firewall	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:26
L8	1	"6651249".pn. and (( fingerprint or "finger print" or signature or checksum or crc) or (unwanted or spam) or firewall )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:30
L9	7813	virus near3 (detect\$3 or protect\$3 or determin\$5 or prevent\$3 ) and (signature or checksum or crc or fingerprint or "finger print" or identifier or identity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:32
L10	664	virus near3 (detect\$3 or protect\$3 or determin\$5 or prevent\$3 ) same (signature or checksum or crc or fingerprint or "finger print" or identifier or identity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:32

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L11	233	virus near3 (detect\$3 or protect\$3 or determin\$5 or prevent\$3 ) same (signature or checksum or crc or fingerprint or "finger print" or identifier or identity) and 7??/???.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:35
L12	27	"virus protection software" and virus near3 (detect\$3 or protect\$3 or determin\$5 or prevent\$3 ) same (signature or checksum or crc or fingerprint or "finger print" or identifier or identity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:36
L13	5	(patch\$3 or updat\$3 or upgrad\$3 or version\$3 ) near5 "virus protection software" and virus near3 (detect\$3 or protect\$3 or determin\$5 or prevent\$3 ) same (signature or checksum or crc or fingerprint or "finger print" or identifier or identity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:37
L14	28	(patch\$3 or updat\$3 or upgrad\$3 or version\$3 ) near5 "virus protection software" and (signature or checksum or crc or fingerprint or "finger print" or identifier or identity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:39
L15	35	(install\$5 or patch\$3 or updat\$3 or upgrad\$3 or version\$3 ) near5 "virus protection software" and (signature or checksum or crc or fingerprint or "finger print" or identifier or identity)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:53
L16	7	l15 not l14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:40
L17	3862	(install\$5 or patch\$3 or updat\$3 or upgrad\$3 or version\$3 ) near5 (virus or protection ) and (( digital near sign\$5 ) or signature or checksum or crc or fingerprint\$3 or "finger print" or identifier or identity of filter\$3 or spam\$4 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:55
L18	1747	(install\$5 or patch\$3 or updat\$3 or upgrad\$3 or version\$3 ) near5 (virus or protection ) and (( digital near sign\$5 ) or signature or checksum or crc or fingerprint\$3 or "finger print" or identifier or identity of filter\$3 or spam\$4 ) and (delta or hub or differenc\$3 or diff)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 09:56

## EAST Search History

L19	473	(install\$5 or patch\$3 or updat\$3 or upgrad\$3 or version\$3 ) near5 (virus or protection ) and (( digital near sign\$5 ) or signature or checksum or crc or fingerprint\$3 or "finger print" or identifier or identity of filter\$3 or spam\$4 ) and (delta or hub or differenc\$3 or diff) and 7??/???.cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 10:47
L20	435	717/170.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 10:48
L21	11	717/170.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:30
L22	0	"60947731".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:27
L23	2	"6094731".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:27
L24	3	717/168.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31
L25	1	717/169.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31
L26	4	717/171.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31

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L27	5	717/172.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31
L28	8	717/173.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31
L29	2	717/174.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31
L30	2	717/175.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:31
L31	4	717/176.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:32
L32	5	717/177.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:32
L33	7	717/178.ccls. and (updat\$3 or patch\$3 or version\$3 or upgrad\$3 ) same (diff or differenc\$3 or delta or hub or changes) same (transmission or transmit\$4 or push\$3 or relay\$2 or download\$3 or send\$3 ) near3 version	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:32
L34	27	I24 I25 I26 I27 I28 I29 I30 I31 I32 I33	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:33

## EAST Search History

S1	2	"6651246".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/09 16:15
S2	2	"6651249".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/09 17:12
S3	8	("5664109" "5845253" "6151581" "6154726").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/09 17:12
S4	8	("5664109" "5845253" "6151581" "6154726").PN. ("5664109" "5845253" "6151581" "6154726").PN. ("5664109" "5845253" "6151581" "6154726").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/09 17:14
S5	173	("5664109" "5845253" "6151581" "6154726" "20010018739" "20020007400" "4962532" "5337354" "5508817" "5555346"  "5557723" "5613108" "5619548" "5694616" "5717923" "5774552" "5781901" "5794210" "5832220" "5892900" "5903880" "5911048" "5917489" "5933811" "5948058" "5960411" "5999967" "6057841" "6073142" "6134685" "6138146" "6145079" "6146026" "6147977" "6161130" "6161181" "6185603" "6199081" "6260059" "6345256" "6363415" "6374237" "6421669" "6460036" "6460050" "6490587" "6493722" "6609196" "3969723" "4558413" "4714992" "4809170" "5155847" "5182806" "5204960" "5479654" "5495610" "5519868" "5566335" "5574906" "5581764" "5649200" "5671398" "5673387" "5699275" "5729743" "5790856" "5799189" "5893113" "5905896" "5909581" "5933647" "5948104" "5960204" "6006034" "6006242" "6035423" "6052531" "6081814" "6092080" "6119165" "6151643" "6349407" "6510552" "6535894" "6651249").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 07:23



virus software patch OR update

1980

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Open Problems in Computer **Virus** Research - [All articles](#) [Recent articles](#)  
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SR White - **Virus** Bulletin Conference, 1998 - research.ibm.com

... As such, it is largely a reactive technology. Customers are required to **update**

their anti-**virus software** periodically to deal with new threats. ...

[Cited by 31](#) - [Cached](#) - [Web Search](#)

Blueprint for a Computer Immune System - [group of 3 »](#)

JO Kephart, GB Sorkin, M Swimmer, SR White - Proceedings of the **Virus** Bulletin International Conference, ..., 1997 - research.ibm.com

... the **virus** will be achieved by simple extensions to the existing IBM AntiVirus

administrative **software**, which permits administrators to **update** hundreds or ...

[Cited by 27](#) - [Cached](#) - [Web Search](#)

Defending systems against viruses through cryptographic authentication - [group of 2 »](#)

GI Davida, YG Desmedt, BJ Matt - Security and Privacy, 1989. Proceedings., 1989 IEEE ..., 1989 - ieexplore.ieee.org

... MEDIUM VENDOR USER'S KEY I VENDOR'S -.IPUBLIC KEYI INJECT **VIRUS** Figure 1 ... If the amount

of information necessary to **patch** the **software** is significantly ...

[Cited by 17](#) - [Web Search](#)

An immune system for cyberspace - [group of 2 »](#)

JO Kephart, GB Sorkin, M Swimmer - Systems, Man, and Cybernetics, 1997.'Computational ..., 1997 - ieexplore.ieee.org

... Finally, the **virus** data are tested, and integrated with data files that contain complete information for all known viruses. The resultant **update** is sent to the ...

[Cited by 10](#) - [Web Search](#) - [BL Direct](#)

REAL WORLD ANTI-VIRUS PRODUCT REVIEWS AND EVALUATIONS-THE CURRENT STATE OF AFFAIRS - group of 14 »

S Gordon, R Ford - Proceedings of the Nineteenth National Information Systems ..., 1996 - [csrc.nist.gov](http://csrc.nist.gov)

... of time and **update** the **software** to match it. This “vendor evaluation” is something

which almost all other evaluations of anti-**virus software** do not include ...

[Cited by 5](#) - [View as HTML](#) - [Web Search](#)

**[BOOK]** Software under siege: viruses and worms - group of 2 »

EL Leiss - 1990 - [video.fhnon.de](http://video.fhnon.de)

... Consequently: Crucial to **update virus detection software** – a **virus** detector that

is two years old will not be able to detect any viruses that appears ...

[Cited by 4](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

**[PS]** Biologically inspired defenses against computer viruses - group of 4 »

JO Kephart, GB Sorkin, WC Arnold, DM Chess, GJ ... - Proceedings of the International Joint Conference on ..., 1995 - [research.ibm.com](http://research.ibm.com)

... continually add new soft- ware to their system, and **update** existing **software** by

buying ... nature of the anomaly must be strongly indicative of a **virus**. ...

[Cited by 28](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Telling the goodguys: disseminating information on security holes

C Stoll, HS Obs, MA Cambridge - Aerospace Computer Security Applications Conference, 1988., ..., 1988 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... Propagate the **patch** through a **virus** Create a benign **software virus** that patches

holes. Perhaps operating system updates could be distributed this way. ...

[Cited by 2](#) - [Web Search](#)

Computer viruses: how companies can protect their systems - group of 5 »

JC Hubbard, KA Forcht - Industrial Management and Data Systems, 1998 - [emeraldinsight.com](http://emeraldinsight.com)

... 2 Educate all associates about viruses, emphasizing how they spread and how they

are detected. 3 **Update** an anti-**virus software** every two months. ...

[Cited by 2](#) - [Web Search](#) - [BL Direct](#)

A generic **virus** detection agent on the Internet - group of 2 »

JS Lee, J Hsiang, PH Tsang - System Sciences, 1997, Proceedings of the Thirtieth Hawaii ..., 1997 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... In addition to helping the spread of viruses, Internet poses, to the anti-**virus software** providers, the additional challenge of how to provide effective anti ...

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## BROWSE SEARCH **IEEE XP** GUIDE

### A generic virus detection agent o

Jieh-Sheng Lee Jieh Hsiang Po-I  
Center of Comput. Services, Hua-F

This paper appears in: **System Science  
the Thirtieth Hawaii International**

Publication Date: 7-10 Jan 1997

Volume: 4, On page(s): 210-219 y

Meeting Date: 01/07/1997 - 01/10/

Location: Wailea, HI, USA

ISBN: 0-8186-7743-0

References Cited: 8

INSPEC Accession Number: 59072

Digital Object Identifier: 10.1109/f

Posted online: 2002-08-06 21:08:50

### Abstract

The dissemination of software has  
Internet became widely available. I  
software has also pushed the wide  
plateau. We present VICEd, a syste  
detection over the Internet. VICEd  
methodology which is a combinatio  
and knowledge base. It detects viru  
instead of pattern matching. It is th  
unknown or mutated viruses than s  
is interesting in its own right. VIC  
system management agents current  
National Taiwan University

### Index Terms

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### Author Keywords

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- ☐ 1. **A generic virus detection agent on the Internet**  
Jieh-Sheng Lee; Jieh Hsiang, Po-Hao Tsai  
System Sciences, 1997, Proceedings of the  
Conference on  
Volume 4, 7-10 Jan. 1997 Page(s):210-214  
Digital Object Identifier 10.1109/HICSS.1997.605511  
AbstractPlus | Full Text: [PDF\(1140 KB\)](#)  
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- ☐ 2. **Neural networks for computer virus recognition**  
Tesauro, G.I.; Kephart, J.O.; Sorkin, G.B.;  
Expert, IEEE [see also IEEE Intelligent Systems  
Volume 11, Issue 4, Aug. 1996 Page(s):400-404  
Digital Object Identifier 10.1109/64.511170  
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Relevance

### 1 [Incremental cryptography and application to virus protection](#)

Mihir Bellare, Oded Goldreich, Shafi Goldwasser

 May 1995 **Proceedings of the twenty-seventh annual ACM symposium computing**
**Publisher:** ACM Press

 Full text available: [pdf\(1.65 MB\)](#) Additional Information: [full citation](#), [reference](#), [index terms](#)

### 2 [Computer virus-antivirus coevolution](#)

Carey Nachenberg






 January 1997 **Communications of the ACM**, Volume 40 Issue 1

**Publisher:** ACM Press

 Full text available: [pdf \(317.53 KB\)](#) Additional Information: [full citation](#), [citation review](#)

### 3 [HEmut-PoliCaza: introducing Ada in the university through PC anti-virus development](#)

Alvaro Hermida

**December 1992 Proceedings of the conference on TRI-Ada '92****Publisher:** ACM PressFull text available:  [pdf](#) (784.32 KB) Additional Information: [full citation](#), [refer terms](#)**4 [Computer use policies: the challenge of updating lab software security](#)** Allan R. Jones**November 1993 Proceedings of the 21st annual ACM SIGUCCS confer services****Publisher:** ACM PressFull text available:  [pdf](#) (304.77 KB) Additional Information: [full citation](#), [index](#)**5 [How to withstand mobile virus attacks \(extended abstract\)](#)** Rafail Ostrovsky, Moti Yung**July 1991 Proceedings of the tenth annual ACM symposium on Princip computing PODC '91****Publisher:** ACM PressFull text available:  [pdf](#) (899.57 KB) Additional Information: [full citation](#), [refer index terms](#)**6 [A bit of viral protection is worth a megabyte of cure](#)** Tim Fitzgerald**June 1995 ACM SIGUCCS Newsletter, Volume 25 Issue 1-2****Publisher:** ACM PressFull text available:  [pdf](#) (427.33 KB) Additional Information: [full citation](#), [abstr](#)


Even in today's world of safeguarded networks and advanced detection s computer viruses are still running amok in some of the seedier niches of hiding out on unclean disks and unprotected hard drives. Speculative run spread epidemics have only added to the confusion as computer users all wonder if their systems are at risk and if there is any way to shield them: stealth operatives of electronic malfeasance.

7 Development and delivery of a computer security strategy for a community

◆ Allan R. Jones

December 1992 **Proceedings of the 20th annual ACM SIGUCCS conference services**

**Publisher:** ACM Press


Full text available:  pdf (456.80 KB) Additional Information: [full citation](#), [index](#)

8 The internet worm program: an analysis

◆ Eugene H. Spafford

January 1989 **ACM SIGCOMM Computer Communication Review**, V

**Publisher:** ACM Press

Full text available:  pdf(2.45 MB) Additional Information: [full citation](#), [abstract terms](#)


On the evening of 2 November 1988, someone infected the Internet with That program exploited flaws in utility programs in systems based on BSD versions of UNIX. The flaws allowed the program to break into those machines itself, thus *infecting* those systems. This program eventually spread to thousands of machines, and disrupted normal activities and Internet connectivity for a week. This report gives a detailed description of the components of the ...

9 The virus is worse than the cure

◆ Don Gotterbarn

March 1995 **ACM SIGCAS Computers and Society**, Volume 25 Issue 1

**Publisher:** ACM Press

Full text available:  pdf (122.69 KB) Additional Information: [full citation](#), [index](#)

10 Computer security by redefining what a computer is

◆ Yvo Desmedt

August 1993 **Proceedings on the 1992-1993 workshop on New security issues**

**Publisher:** ACM Press

Full text available:  pdf


(689.37 KB) Additional Information: [full citation](#), [refer](#)

### 11 [News track](#)

◆ Rosalie Steier

December 1990 **Communications of the ACM**, Volume 33 Issue 12

**Publisher:** ACM Press


Full text available:  [pdf](#) (205.88 KB) Additional Information: [full citation](#), [index](#)

### 12 [Technology magic: software distribution at Indiana University](#)

◆ Bonnie R. Hites, Richard White

November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on computer services: are you ready?**

**Publisher:** ACM Press


Full text available:  [pdf](#) (624.53 KB) Additional Information: [full citation](#), [index](#)

### 13 [News track](#)

◆ Robert Fox

March 1998 **Communications of the ACM**, Volume 41 Issue 3

**Publisher:** ACM Press


Full text available:  [pdf](#) (301.96 KB) Additional Information: [full citation](#), [index](#)

### 14 [Does licensing require new access control techniques?](#)

◆ Ralf C. Hauser

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

**Publisher:** ACM Press

Full text available:  [pdf](#) (804.20 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)




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### 15 Site licensed software: marketing & distribution

◆ Rosa Gilman, Sandra J. Li

August 1990 **Proceedings of the 18th annual ACM SIGUCCS conference on services**

**Publisher:** ACM Press


Full text available:  pdf (460.21 KB) Additional Information: [full citation](#), [index](#)

### 16 Prepared testimony and statement for the record on computer virus legislation

◆ Marc Rotenberg

March 1990 **ACM SIGCAS Computers and Society**, Volume 20 Issue 1

**Publisher:** ACM Press


Full text available:  pdf(1.59 MB) Additional Information: [full citation](#), [index](#)

### 17 An equational object-oriented data model and its data-parallel query language

◆ Susumu Nishimura, Atsushi Ohori, Keishi Tajima

October 1996 **ACM SIGPLAN Notices , Proceedings of the 11th ACM conference on Object-oriented programming, systems, languages and applications OOPSLA '96**, Volume 31 Issue 10

**Publisher:** ACM Press

Full text available:  pdf(1.98 MB) Additional Information: [full citation](#), [abstracts](#), [index terms](#)


This paper presents an equational formulation of an object-oriented data model, a database is represented as a *system of equations* over a set of objects. A query is a transformation of a system of equations into another system of equations. During the query processing, our model maintains an *equivalence relation*

relates oid's corresponding to the same "real-world entity." By this mech achieves a declarative set-based query l ...

### 18 Risks to the public in computers and related systems

◆ Peter G. Neumann


April 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Is  
**Publisher:** ACM Press

Full text available:  [pdf\(2.07 MB\)](#) Additional Information: [full citation](#), [index](#)

### 19 Privacy lost, anytime, anywhere

◆ August 1997 **Communications of the ACM**, Volume 40 Issue 8

**Publisher:** ACM Press


Full text available:  [pdf\(714.56 KB\)](#) Additional Information: [full citation](#), [citing](#)

### 20 GRAMPS - A graphics language interpreter for real-time, interactive, three picture editing and animation

◆ T. J. O'Donnell, Arthur J. Olson

August 1981 **ACM SIGGRAPH Computer Graphics , Proceedings of the conference on Computer graphics and interactive techniques '81**, Volume 15 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstracts](#), [citations](#), [index terms](#)

GRAMPS, a graphics language interpreter has been developed in FORTRAN and used in conjunction with an interactive vector display list processor (Eva Multi-Picture-System). Several of the features of the language make it very convenient for real-time scene construction, manipulation and animation. The language syntax allows natural interaction with scene elements as well as assignment of graphics input devices. GRAMPS facilitates the ...




**Keywords:** Graphics language interpreter, Picture editor, Real-time animation display list processor

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